No. 18,395. Underground Conduit for Electric Wires. (Conduit souterrains pour les fils électriques.)

Josiah S. DuBois, Camden, N. J., U. S., 10th January, 1884; 5 years.

years.

Claim.—lst. In an underground conduit for electric wires, sheating plants and the coaring of cement enveloping them, in combination with the outer wall K and foundation G of masonry, and the shelves and their standards or supports within said sheating, substandards as and for the purpose specified. 2nd. An underground conduity as and for the purpose specified. 2nd. An underground confiner and outer walls with foundations, a cap or lid, and a coating enveloping said inner wall and its foundation, and said cap or lid, substantially as and for the purpose set forth. 3rd. An underground conduit for electric wires formed with a cap or cover having hinges at each end, substantially as and for the purpose set forth. 4th. An inderground conduit for electric wires, provided with a pipe formed winds are substantially as and for the purpose set forth. 4th. An inderground conduit for electric wires, provided with a pipe formed swang to the right or left and provide means for ventilating the pipe and access to the interior thereof, substantially as and for the purpose set forth.

No. 18,396. Ball Governor for Steam Engines. (Gouvernateur à boulet pour les machines à vapeur.)

William E. Badger, Quincy, Mass., U. S., 13th January, 1884; 5

Claim.—1st. In a ball governor, a bent spring Q, in combination with two levers, each having three arms C, D and E, the balls P on the lower arms E of said levers, the pulley R which engages with the down with said pulley, substantially as set forth 2nd. In combination with an adjustable governor-ball and its actuating devices, a suspensory for said ball having a scale of numerals marked substantially as set forth 3nd. He engine, which it is minates, in combination with the plate h, which bears against said disk, the rod i rising from said plate, the hub R held having the upper end sleeved on said rod i and the screw k, which hid and said arm and pin together, substantially as set forth.

No. 18,397. Drying Kiln. (Touraille.)

Garret F. Speer, Philadelphia, Pa., U.S., 13th January, 1884; 5

Years. Speer, Philadelphia, Pa., U.S., 13th January, 1884; 5 Years.

Claim—1st. A drying kiln provided on its end with vertical air concepts on the kiln chamber and condensers, and exits from said condensers, in combination with a fan, a main or nozzle to admit fresh far, whereby all of the air is drawn from the atmosphere outside the stantially as set forth. 2nd. A drying kiln provided on its end with a fan, an oblique blast nozzle and heating apparatus, substantially fantened her purpose specified. 3rd. In a drying kiln, a broad or has and for the purpose specified. 3rd. In a drying kiln, a broad or the fine, or part into each, substantially as and for the purpose specified. 3rd. In a drying kiln, a broad or clied, or part into each, substantially as and for the purpose specified and inclination, in combination with a trough at its bottom, an air sease the fine, or part into each, substantially as and for the purpose specified. 3rd. In a drying kiln, a broad or flattened blast nozzle set at escape fine and valve mechanism for directing the current of air boose specified. 5th. In a drying kiln, a broad or flattened air or blast sers, a trough at the bottom of the nozzle, an air escape flue and valve data to the kiln ber or into the flue, substantially as and for the purpose specified. 5th. In a drying kiln, a broad or flattened air or blast sers, a trough at the bottom of the nozzle, an air escape flue and valve data to reduce the fine of the flue, substantially as set forth. 6th. In a drying contabration with vertical air condensers, a trough at the bottom of the nozzle, an air escape flue and valve data to reduce the flue, substantially as set forth. 6th. In a drying contabration with vertical air condensers, a trough at the bottom of the flue, and heating apparatus substantially ded on their inner sides with condensing surfaces, in combination the chamber of flue, and heating apparatus substantially ded on their inner sides with condensing surfaces, in combination to fattened nozzle ti, trough o, valve plat Claim—1st. A drying kiln provided on its end with vertical air conneces:

No. 18,398. Cut-Off Valve for Steam En-

George U. Conway, Milwaukee, Wis., U.S., 13th January, 1884; 5 Claim.—1st. The beam H pivoted between the upper ends of the sach to engage min on with trips, one on each valve rod adapted with to engage with one end of the beam, and other trips connected set florth. 2nd. The combination of trips d, d¹ and M, M¹ connected y 2nd. The combination of trips d, d¹ and M, M¹ concurrently the configuration of the set of the configuration of trips d. d¹ and M, M¹ concurrently the configuration of trips d. d¹ and M. M¹ concurrently the configuration of the set o

central cylinder h^2 apertured to permit the escape of air through it, from between the cap and head, into an annalus about it (the said cylinder), as set forth. 4th. Cap g, the wall of which is grooved on its inside vertically, in combination with the head having its wall reduced on its outside, and having a packing ring about it, just above its reduced portion, as set forth. 5th. The cap g, in combination with the head g, having a central cylinder h with apertures leading from between the head and its cap into an annular chamber, between the cylinder and the outer wall of the head, for deadening the sound occasioned by the expulsion of the air, as set forth.

No. 18,399. Railroad Car. (Voiture de railroute.)

Thomas L. Wilson. Port Hope, and Eugene H. Davis, Toronto, Ont. 13th January, 1884: 5 years.

13th January, 1884: 5 years.

Claim.—1st. In a railroad box car having the end studs removed, the posts A mortised into the roof rail B and head stock C, in combination with the truss strap D and bolts F and G, substantially as and for the purpose specified. 2nd. In a railroad box car having the end studs removed, and doors hinged to the posts A, the combination of the bolts L connected to, and operated by the lever M, substantially as and for the purpose specified. 3rd. In a railroad box car having the end studs removed, and doors hinged to the posts A, as described, a pivoted cross-bar N, in combination with a clasp O having a projecting piece Q welded on its back, and a bolt P for locking the bar to the clasp, as specified.

Combined Thill Coupler, De-No. 18,400. tacher and Brake. (Armon de limonière et frein combinés.)

Duby Green, Cincinnati, Ohio, U. S., 13th January 1884; 5 years.

Duby Green, Cincinnati, Ohio, U. S., 13th January 1884; 5 years.

Claim.—1st. In a thill-coupling, the clip A having on its forward side the chamber E, in combination with the elastic cushion C, having the curved socket L and seat O, substantially as herein set forth. 2nd. In a thill-coupling, the clip A having the chamber E and the elastic cushion, as shown, with the yoke P provided with the upturned end Q and seroll R, substantially as herein set forth. 3rd. In a thill-coupling, an elastic cushion C cast or moulded with a circular or curved socket, to receive a curved hook, as described, thereby preventing said hook from coming in contact with metal in the housing or chamber, substantially as shown. 4th. The elastic cushion C having the curved socket L and seat O, in combination with the curved distilling and the upturned yoke, substantially as herein shown and described. 5th In thill-couplings and detachers, the clip A having the transverse aperture F, in combination with the shaft bar or rod of extending from clip to clip, having the arm I provided with the right angled side projection J at the forward end, and the rearwardly projecting arm Ji with the standard K attached thereto, substantially as herein set forth. 6th. In thill-couplings and detachers, the detaching arm I having, at the forward end, the side projection J extending under the thill iron N and in combination therewith, substantially as and for the purpose herein shown. 7th. The clip A having the bousing B on the forward side lid H, elastic cushion C provided with the curved socket L, and seat O, in combination with the voke P having the upturned extension Q and scroll R, and with the voke P having the upturned extension Q and scroll R, and with the curved thill iron M, substantially as herein set forth. 8th. The cushion C provided with the curved sole L and having, on the forward underside, the recess O to receive the upturned end of the yoke, to thoroughly encase it, substantially as herein set forth.

No. 18,401. Jacketed Vessel. (Vaisseau

No. 18,401. Jacketed Vessel. (Vaisseau enveloppé.)

Louis Fritz, Memphis, Tenn., U.S., 13th January 1884; 5 years Louis Fritz, Memphis, Tenn., U.S., 13th January 1884; 5 years. Claim.—1st. The combination, with a metallic bilged barrel, of a sectional or two-part bilged jacket removably secured around the same, as set forth. 2nd The combination, with a metallic bilged barrel, of a sectional or two part jacket made up of staves of irregular lengths and secured around the barrel, as set forth. 3rd. The combination, with a crimped metallic barrel, of a jacket A composed of the sections a, b and the hoops D. Dl., as set forth. 4th. The combination, with a vessel provided with the thr aded standard E and the screw-cap B, of the pump of less length than the vessel, and having a lower threaded end and a spout adapted to be drawn up above the opening, as set forth.

No. 18,402. Spring Bed Bottom.

(Sommier élastique.)

Hiram Benedict, Detroit, Mich., U.S., 13th January 1884; 5 years.

Claim.—1st. A section of a spring bed-bottom consisting of the slat A, springs B, cross-riders C and the elastic bands D, combined and operating substantially as and for the purposes set forth. 2nd. A spring bed-bottom composed of a series of independent slats, each of said slats supporting a series of springs and riders, and all the riders on each slat being secured together by means of the elastic wovenwire straps, substantially as described.

No. 18,403. Stove Truck and Carrier.

(Charriot de transport des poêles.)

Mark K. Leavenworth, Bridgeport, Ct., U. S., 13th January 1884; 10

Claim.—1st The socket C, case D, arm E having the socket H cast one piece, as and for the purpose specified. 2nd. The combination, substantially as described, of the handles A, A, tie B B, socket C, case D and arm E1, bar G having the handles R, R, axle F, wheels I, I, as and for the purpose specified. 3rd. As an article of manufacture, a combined truck and carrier having the wheels encased and small, to bring the tulcrum low down, and provided with a secondary lifting bar, as and for the purpose specified.